

STING





The STING is expanding

- New Sizes with the World's Best Plug Fan!

The design and multi-functional concept of the STING air handling units from Fläkt Woods is well established in the ventilation trade. We now have great pleasure in introducing a number of new features in the STING family of products.

NEW SIZES

The STING – now with a total of 9 sizes, up to 8 m³/s.

THE WORLD'S BEST PLUG FAN!

Fläkt Wood's new plug fan, the Centriflow Plus, offers up to 77 % efficiency.

EXPANDED RANGE OF HEAT EXCHANGERS

Fläkt Wood's highly efficient TURBOTERM rotor is now available in the STING. Along with the standard rotor and the hygroscopic rotor, it offers you a full range of products for maximal heat recovery.

YOUR RUNNING COSTS ARE OUR CONCERN

The aim of Fläkt Woods is to design for a good environment, healthy indoor climate as well as low operating costs. With enhanced fan performance and heat recovery efficiency, you can be sure that the life cycle cost of STING air handling units will be remarkably low and will rank well in any comparison.

SIMPLE AND FLEXIBLE

STING stands for simplicity, from installa-

tion to commissioning. The air handling unit is supplied customized to your specifications and the control system has been preset to make the installation work as simple as possible.

RELIABLE EQUIPMENT

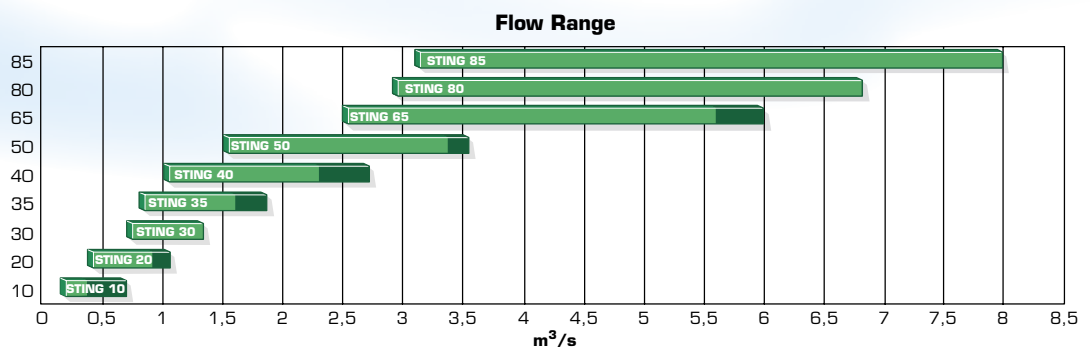
The control system is integrated into the air handling unit and has provision for a large number of external functions. The temperature sensors and actuators can be easily connected by means of quick connectors.

COMMUNICATION

The STING can communicate with most communication systems available on the market. Just ask us and we'll help you find the best solution.

TYPICAL INSTALLATIONS

The STING is a complete one-piece air handling unit that is well suited for installation in public buildings such as day nurseries, schools, office buildings, shops, etc. Fitted with appropriate accessories, the STING can also be installed outdoors.



The dark-shaded area refers to the flow for a SFP_v of 2.5 at 250 Pa external pressure.



Effective Fans and High Temperature Efficiency

Low energy consumption is going to be of ever greater significance in the future. The development of the new Centriflow Plus plug fans is a major step in that direction.

With up to 77 % fan efficiency, they enable remarkably low SFPv values.

In combination with the high-temperature-efficiency rotary heat exchanger, these fans make the STING an extremely energy-saving air handling unit.

The sizing work can be carried out in the ACON, Fläkt Woods' new Web-based product selection software. This software lets you to see fan efficiency, SFPv and LCCe values at a glance.

77%

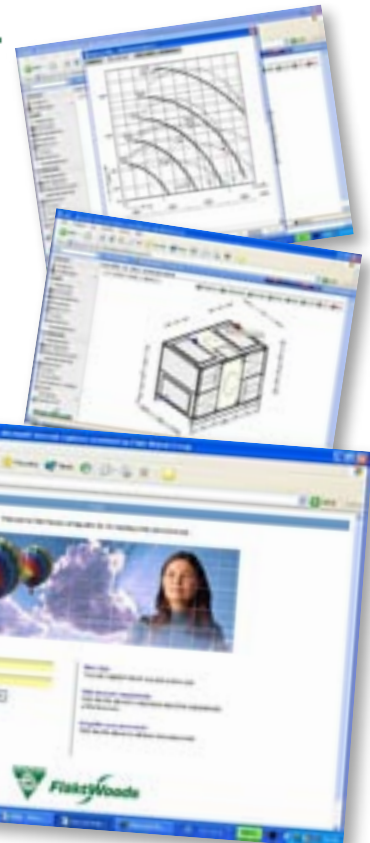


Air Handling Unit Sizing via the Web



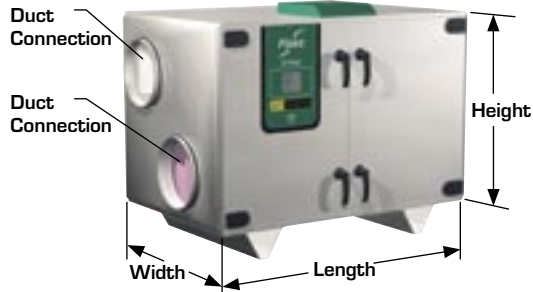
Air-handling configuration – ACON is the name of the new-generation Web-based product selection software. ACON makes sizing the STING a quick and simple task.

- ✓ You always work with the latest version of the software.
- ✓ The program does not require installation in your computer.
- ✓ Always available on the Internet.
- ✓ Dimensions, efficiencies, sound levels, etc.
- ✓ Fan curve with duty points, etc.
- ✓ Air handling unit drawings can be exported to CAD.
- ✓ Product-specific documentation.
- ✓ You obtain current delivery dates.

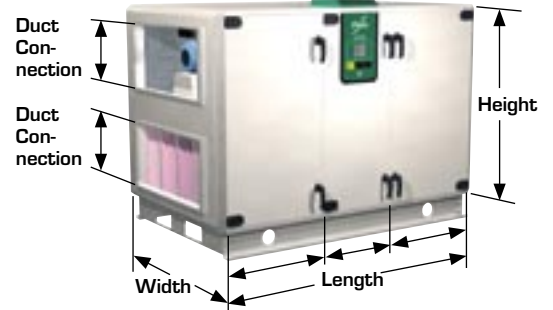


Contact your nearest Fläkt Woods representative for a personal login id. You'll find your nearest Fläkt woods representative at our website: www.flaktwoods.com

DIMENSION SKETCH, sizes 10-20

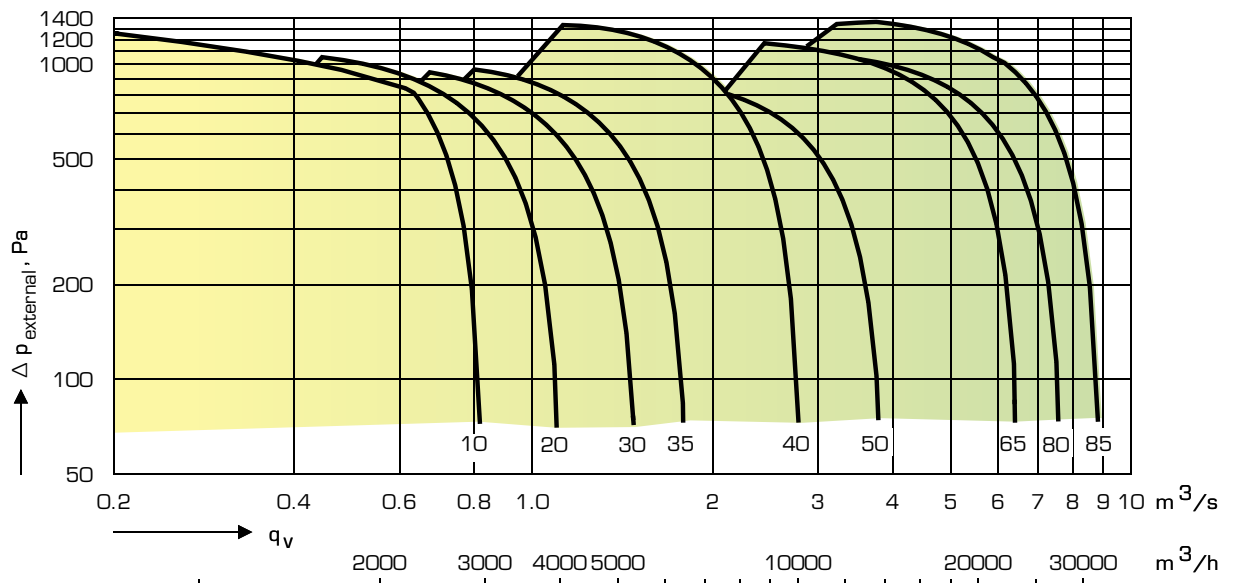


DIMENSION SKETCH, sizes 30-85



SIZE (mm)	WIDTH (mm)	HEIGHT (mm)	LENGTH (mm)	MAXIMAL BLOCK LENGTH (mm)	WGT. (kg)	DUCT-CONNECTION	REC. FUSE AT 3x400 V
10	836	875	1270	-	238	ø 315	16 AT
20	1036	1075	1600	-	352	ø 400	16 AT
30	1186	1225	1900	700	424	800x400	16 AT
35	1186	1225	1900	700	442	800x400	20 AT
40	1436	1475	2200	750	646	1000x500	25 AT
50	1736	1775	2400	850	858	1200x600	25 AT
65	2004	2074	2712	1104	1441	1600x800	45 AT
80	2604	2674	2912	1204	2230	2000x1000	45 AT
85	2604	2674	3112	1304	2278	2000x1000	63 AT

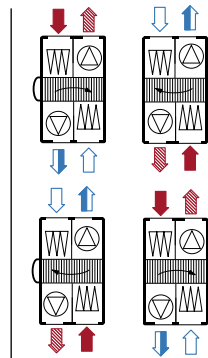
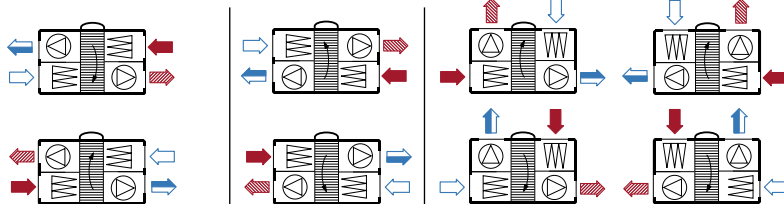
PRESSURE/FLOW CHART for STING sizes 10-85



Flexible installation – the way it should be!

The STING air handling unit is correctly configured on delivery and offers you provision to install it in a small space. The duct connections in top of the unit for upward ducting arrangements save you substantial floor space. The units in the smallest sizes can be installed vertically enabling you to

utilize saved floor space for other purposes. The unit is easy to transport either whole or in sections. It offers speedy installation and commissioning. Fitted with appropriate accessories, the STING can be installed outdoors.



Size				
10	•			•
20	•	•	•	•
30	•	•	•	
35	•	•	•	
40	•	•	•	
50	•	•	•	
65	•	•	•	
80	•	•	•	
85	•	•	•	

= Exhaust air
 = Outdoor air
 = Extract air
 = Supply air
 = Delivery version





Along with a number of new features, the STING product family offers several benefits. The control system has been developed to make operating the unit easier for you as the user.

The control system of the STING is complete and is fully integrated into the air handling unit. It controls the fans, heat exchanger and temperatures during the in-operation periods you require.

Ease of installation, use and supervision, have been prime considerations in the development of the STING control system.

In that the control system is integrated into the air handling unit, as a client and user, you can be sure that the control solution is optimized.

You can choose the functions you desire in the ACON product selection software. The air handling unit then comes with these functions pre-programmed from the factory.

You can enter settings such as in-operation periods and airflow rates desired, etc. via the hand-held micro terminal. Clearly arranged, easily understood, plain-text menus in the display make the micro terminal easy to use.

There are various types of temperature control to choose between and communication is available as an option. LonWorks, OPC, BACNet, Modbus as well as Web applications are obtainable.

FUNCTIONS

- ✓ Temperature control
- ✓ Fan operation
- ✓ Air quality control
- ✓ Fire functions
- ✓ Heat recovery functions
- ✓ Communication via LON, OPC, etc.



Accessories and Functions

AIR HEATERS – ELECTRIC, WATER

Electric air heater, electric duct heater with built-in thyristor.

Air heater for hot water, copper tubes and aluminium fins. With or without valve and valve actuator.

The air heater can be mounted directly against the outlet of size 20 – 85 air handling units. The air heater of the size 65 – 85 STING units are incorporated into a separate casing; mounted together with the air cooler, if one is fitted.

AIR COOLERS – WATER, DX

Air cooler for chilled water, copper tubes and aluminium fins.

Air cooler for direct expansion, DX, in 2 steps, 1/3 + 2/3 interlace connection.

The air cooler can be mounted directly against the outlet of size 20 -85 air handling units. The air coolers of the size 65 – 85 units are incorporated into a separate casing; mounted together with the air heater, if one is fitted.

EXHAUST AIR HOOD

Equipped with protective screen. Circular connection for the size 10 –20 STING units and rectangular for the size 30 – 85 STING units

SILENCERS

Silencers for sizes 10-20 are straight circular duct silencers.

Silencers for sizes 30-85 are rectangular silencers with baffle elements



INTAKE AIR GRILLE WITH HOOD

Intake air grille with frame made of galvanized sheet steel and louvres made of weather resistant polypropylene.

DAMPER

Tightness Class 3. The damper is made of galvanized sheet steel with or without mounted actuator with spring return or on/off.

OUTDOOR VERSION

The STING for outdoor installation must be equipped with a roof, intake air grille with hood and exhaust air hood. The control equipment cubicle must be equipped with electric heating.

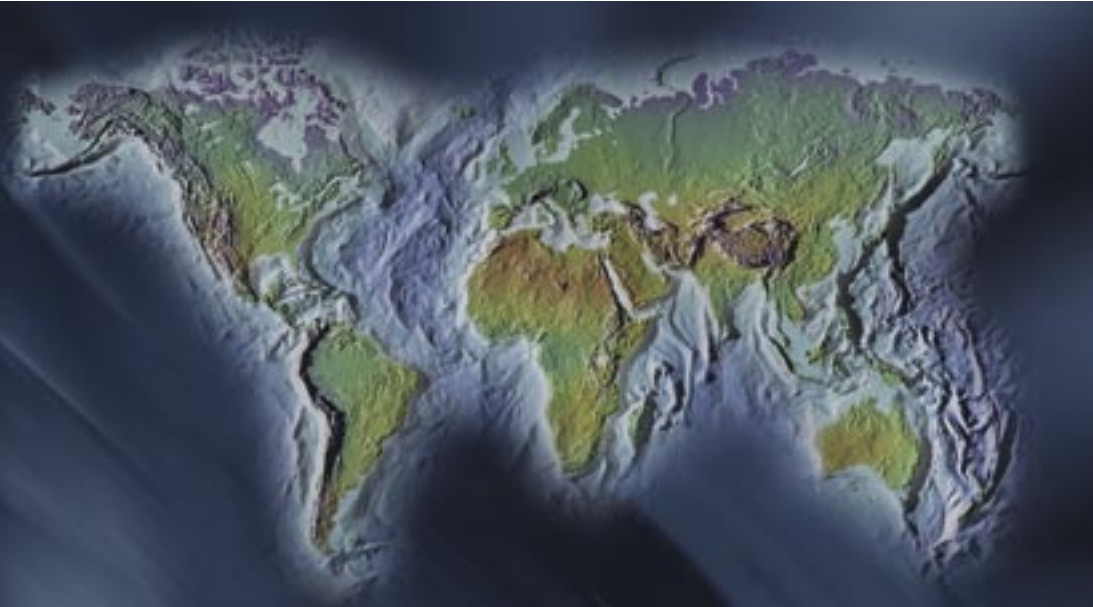
OTHER ACCESSORIES

Stainless filter frame with drip tray, Water trap, Adjustable feet, Dual purpose hood for roof and wall mounting, Roof duct, etc.

ROOF FOR OUTDOOR INSTALLATION

The roof is convex for excellent water run-off.

Fläkt Woods Group Brings Air to Life



Fläkt Woods Group provides a full range of products and solutions for buildings and ventilation, air treatment and industrial air movement

Sales Offices available World Wide – See our website for details

www.flaktwoods.com

Due to a policy of continuous development and improvement the right is reserved to supply products which may differ from those illustrated and described in this publication. Certified dimensions will be supplied on request on receipt of order.

FläktWoods